

## ABSTRACT

Disclosed herein is a system for momentarily heating the surface of a mold and system thereof. The system comprises a casting material feeder, upper and lower molds, a  
5 water-cooled system, first and second cores, a voltage generator, a electric resistance heater, a controller, an injection molding control, an air and gaseous fuel mixture and supply unit, an interface and a control panel. The casting material feeder serves to supply molten casting material. The injection molding control serves to control the upper mold and the lower mold. The air and gaseous fuel mixture and supply unit serves to supply  
10 compressed air and gaseous fuel simultaneously. The gaseous fuel mixture and supply control serves to control the operation of the air and gaseous fuel mixture and supply unit. The interface serves to interface the injection molding control and the gaseous fuel mixture and supply control. The control panel serves to visually display the control, condition and operation of the components of the system. The water-cooled system serves  
15 to cool the surface of a heated mold. The electric resistance heater serves to heat the first core.